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54 **Light sensing devices with lenticular pixels.**

57 A multipixel light sensing semiconductor device contains in at least one pixel a lens presenting a convex surface and a lens supporting layer for directing light inwardly to a semiconductive light sensor. The lens supporting layer has a thickness exceeding that of the lens, and the lens is laterally confined on the lens supporting layer between at least two opposed pixel edges.

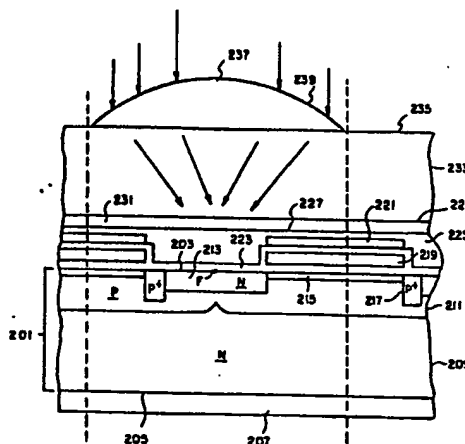


FIG. 7



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 87 10 4927

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
P,X	US-A-4 667 092 (NEC CORP.) * column 4, table I; column 5, line 1 - column 6, line 19; figures 5-7e *; & JP - A - 60 38989 (Cat. X); & JP - A - 59 122193 (Cat. X) ---	1-4,8-10	H 01 L 31/02
A	PATENT ABSTRACTS OF JAPAN vol. 8, no. 206 (E-267)(1643) 20 September 1984; & JP- A - 59 90466 (MITSUBISHI DENKI K.K.) 24.05.1984 ---	3,4	
X	PATENT ABSTRACTS OF JAPAN vol. 9, no. 193 (E-334)(1916) 9 August 1985; & JP - A - 60 60756 (HITACHI SEISAKUSHO K.K.) 08.04.1985 ---	1,9,10	
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D,Y	PATENT ABSTRACTS OF JAPAN vol. 8, no. 281 (E-286)(1718) 21 December 1984; & JP - A - 59 148482 (HITACHI SEISAKUSHO K.K.) 25.08.1984 ---	8	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
D,A	IEEE TRANSACTIONS ON CONSUMER ELECTRONICS vol. CE-31, no. 2, May 1985, pages 88-95; H. SAEKI et al.: "Effect of microlens array for MOS color imager" * section II; figures 1,2 * ---	1	H 01 L 31/00 H 01 L 27/00
A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 228 (E-426)(2284) 8 August 1986; & JP - A - 61 64158 (NEC CORP.) 02.04.1986 -----	6	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 28-08-1989	Examiner MUNNIX S J G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			